

UNITED STATES PLANT PATENT APPLICATION

of

L. PERNILLE AND MOGENS N. OLESEN

for

ROSE PLANT NAMED

'Poulcs012'

SUMMARY OF THE INVENTION

BOTANICAL CLASSIFICATION

*Rosa hybrida*

VARIETY DENOMINATION

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'Poulcs012'

The present invention constitutes a new and distinct  
variety of garden rose plant which originated from a  
controlled crossing between the female seed parent, an un-  
10 named seedling, and the male pollen parent 'Poulsun',  
described and illustrated in U.S. Plant Patent No. 9,716  
issued on 3 December, 1996. The two parents were crossed  
during the summer of 1992 and the resulting seeds were  
planted in a controlled environment in Fredensborg, Denmark.  
15 The new variety is named 'Poulcs012'.

The new variety may be distinguished from its unnamed  
female seed parent, by the difference in flower color.  
While the seed parent has creamy white flowers, 'Poulcs012'  
has medium yellow flowers.

20 The new variety may be distinguished from its male  
pollen parent, 'Poulsun' by the following combination of  
characteristics:

1. While the pollen parent 'Poulsun' has flower  
petals which are Yellow Group 13A on the  
25 upper surface, 'Poulcs012' has flower petals

which are Yellow Group 4C.

2. While the pollen parent reaches a height of 12 inches (30 cm), 'Poulcs012' grows taller, to a height of 60 cm.

5           The objective of the hybridization of this rose variety was to create a new and distinct variety for garden use with unique qualities, such as:

1. Uniform and abundant light yellow flowers;
2. Vigorous, but compact growth when propagated  
10           both as a budded rose and on its own roots;
3. Disease resistance;
4. Continuous flowering.

          This combination of qualities is not present in previously available commercial cultivars of this type,  
15       known to the inventors, and distinguish 'Poulcs012' from all other varieties of which we are aware.

          As part of their rose development program, L. Pernille Olesen and Mogens N. Olesen germinated the seeds from the aforementioned hybridization during winter of 1992 and  
20       conducted evaluations on the resulting seedlings in a controlled environment in Fredensborg, Denmark.

          'Poulcs012' was selected in the spring 1993 by the inventors as a single plant from the progeny of the aforementioned hybridization.

25           Asexual reproduction of 'Poulcs012' by traditional

budding and rooted cuttings was first done by L. Pernille and Mogens N. Olesen in their nursery in Fredensborg, Denmark in July, 1993. This initial and other subsequent asexual propagations conducted in controlled environments have demonstrated that the characteristics of 'Poulcs012' are true to type and are transmitted from one generation to the next.

#### BRIEF DESCRIPTION OF THE DRAWING

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The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, and stems, of 'Poulcs012'. Specifically illustrated in SHEET 1:

Fig 1.1; Open flower, stem showing cluster of open flowers, branching, and the attachment of leaves, buds, and peduncles;

20 Fig 1.2; Flower bud closed, flower bud as sepals unfold, and partially open;

Fig 1.3; Flower petals, detached;

Specifically illustrated in SHEET 2:

25 Fig 2.1; Sepals, receptacle, and peduncle;

Fig 2.2; Juvenile leaf;

Fig 2.3; Mature leaves;

Fig 2.4; Bare stems exhibiting thorns.

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DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'Poulcs012', as observed in its growth in a field nursery in Jackson County, Oregon. Observed plants are 3 years of age. Plants were grown on *Rosa multiflora* understock. Color references are made using the Royal Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used.

For a comparison, several physical characteristics of the rose variety 'Pouljill', a rose variety from the same inventors described and illustrated in U.S. Plant Patent No. 12,522 issued 9 April, 2002 are compared to 'Poulcs012' in Chart 1.

CHART 1

20

|                                | 'Poulcs012'     | 'Pouljill'      |
|--------------------------------|-----------------|-----------------|
| Petalage                       | 30 to 35 petals | 35 to 40 petals |
| Plant height at full maturity. | 60 cm           | 100 cm          |

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|  |                  |   |
|--|------------------|---|
| Upon opening:<br>flower petals<br>inner surface<br>of inner<br>petals. | Yellow Group 4C. | Yellow Group 13B<br>with marginal zone<br>Yellow Group 11D. |
|--|------------------|---|

#### FLOWER AND FLOWER BUD

Blooming habit: Continuous.

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Flower bud:

Size: Upon opening, 18 mm in length  
from base of receptacle to end of  
bud. Diameter is 15 mm.

Bud form: Globular.

15

Bud color: As sepals unfold, petals are  
Yellow Group 2C with intonations  
of Red Group 47A. At  $\frac{1}{4}$  opening  
petals are Yellow Group 4D.

Sepals:

20

Upper Surface:

Color: Yellow-Green Group 143C with  
anthocyanic pigments of  
Greyed-Red Group 181B.

Surface: Moderately pubescent.

25

Lower Surface:

Color: Yellow-Green Group 143C with

5

Sepal Shape:

10

Size: 18 mm (l) x 8 mm (w).

15

20

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|    |                      |  |
|----|----------------------|--|
|    |                      | fragrant.  |
|    | Length:              | 20 to 25 mm average length.  |
|    | Color:               | Yellow-Green Group 144B.   |
| 5  |                      | Weak anthocyanic pigments<br>the color of Greyed-Red<br>Group 180B observed.   |
|    | Strength:            | Strong.  |
|    | Borne:               | In clusters of 21 flowers,<br>7 buds per individual  |
| 10 |                      | flowering stem.  |
|    | <b>Flower bloom:</b> |  |
|    | Fragrance:           | Moderate wild rose scent.  |
| 15 | Duration:            | The blooms have a duration<br>on the plant of<br>approximately 10 to 14 days.<br>After flowers completely<br>mature, petals fall cleanly<br>away from plant. |
| 20 | Size:                | Flower diameter is 53 mm when<br>open. Flower depth is 27 mm on<br>average.  |
|    | Form:                | General shape is a deep cup.   |
| 25 |                      | Shape of flower when viewed from   |



the side:

Upon opening, upper part: Flat.

Upon opening, lower part: Flat.

Open flower, upper part: Flat.

5                   Open flower, lower part: Concave

Petalage:           Average range is 30 to 35 petals  
under normal conditions with 10  
petaloids.

10           **Color:**

Upon opening, petals:

          Outermost petals:

                  Outer side:     Yellow Group 4D.

                  Inner Side:    Yellow Group 4C.

15           Innermost petals:

                  Outer side:     Yellow Group 4D.

                  Inner Side:    Yellow Group 4C.

Upon opening, No distinctive coloration at the petal  
base observed.

20           After opening, petals:

          Outermost petals:

                  Outer side:     Yellow Group 4D.

                  Inner Side:    Yellow Group 4C.

          Innermost petals:

25           Outer side:     Yellow Group 4D.

Inner Side: Yellow Group 4C.

After opening, No distinctive coloration at the  
petal base observed.

General Tonality: On open flower Yellow Group 4D.

5 No change in the general tonality  
at the end of the 10 day.

**Petals:**

Petal Reflex: Somewhat reflexed.

Margin: Entire and uniform. Weak to  
10 medium undulations of margin  
observed.

Shape: Apex: Round.  
Base: Acute.

Size: 35 mm (l) x 32 mm (w).

15 Texture: Smooth.

Thickness: Average.

Arrangement: Not Formal.

**Petaloids:**

Quantity: 8 to 12.

20 Color:

Upper Surface: Yellow Group 4C.

Lower Surface: Yellow Group 4D.

Size: 30 mm (l) x 28 mm (w).

Shape: Elliptical.

25

Reproductive Organs:

Pistils:

Length: 5 mm long.

Quantity: 59 (actual count).

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Pollen:

None observed.

Anthers:

Size: 1 to 2 mm in length.

Color: Greyed-Orange Group 163B.

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Quantity: 99 (actual count).

Filaments:

Color: Yellow Group 9A.

Length: 4 mm.

Stigmas:

Superior relative to the  
length of filaments and to  
the height of the anthers.

15

Color: Greyed-Yellow Group 162A.

Styles:

Color: Yellow-Green Group 150D.

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Other Intonations:

Red-Purple Group 57A.

Hips:

None Observed in the field nursery in  
Jackson County Oregon.

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PLANT

**Plant growth:** Moderate, upright to bushy. When grown as a budded field grown plant on *Rosa multiflora* understock, the average height of the plant is 60 cm and the average width is 60 cm.

**Stems :**

Color:

10 Young wood: Yellow-Green Group 144B.

Older wood: Yellow-Green Group 144B.

Surface Texture:

Young wood: Smooth.

Older wood: Smooth.

15                      **Thorns:**

Incidence: 4 thorns per 10 cm of stem.

Size: 9 mm.

Color: Greyed-Orange Group 177B.

Shape:                      Deeply concave.

## 20

Plant foliage: Normal number of leaflets on  
normal leaves in middle of the  
stem: 5 leaflets.

Compound Leaf size: 150 mm in length by 120 mm  
wide.

Quantity: Average.

Color:

Mature Foliage:

5 Upper surface is: Green Group 137A  
to Yellow-Green  
Group 144A.

Lower surface is: Yellow-Green  
Group 147C.

Juvenile foliage:

10 Upper surface is: Yellow-Green  
Group 144A.

Lower surface is: Yellow-Green  
Group 144B.

Plant leaves and leaflets:

15 Stipules:

Size: 20 mm in length.

Shape: Linear with outward  
extending apices.

Quantity: 2 per compound leaf.

20 Margins: Finely serrated with  
abundant stipitate glands.

Color: Yellow-Green Group 144A.

Petiole:

Length: 25 mm.

25 Above:

Color: Yellow-Green Group 144B.

Underneath:

Observations: Thorns observed.

Rachis:

5 Length: 53 mm.

Above:

Color: Yellow-Green Group 144B.

Underneath:

Observations: Thorns observed.

10 Leaflet:

Edge: Serrated.

Size: 45 to 68 mm (l) x 25 to 42 mm (w).

Shape: Ovate. Apex is cuspidate.

15 Base is round.

Texture: Smooth.

Thickness: Thick.

Arrangement: Odd pinnate.

Venation: Reticulate.

20 Glossiness: Glossy.

**Disease resistance:**

Above average resistance to mildew, rust, black spot, and Botrytis under normal growing conditions in Jackson

25 County, Oregon.

**Cold Hardiness:**

The variety 'Poulcs012' has been found to be cold tolerant to USDA Cold Hardiness Zone 6.